ABSTRACT

A method of and apparatus for adaptively managing connectivity for mobile devices through available interfaces allows a user to seamlessly move from one access point to another while the user's mobile device manages the connection for the user. The user's mobile device continuously probes for access points, identifies access points within range of the device and chooses to connect to the access point that fits defined criteria. Information within the access point's beacon signal is used to obtain information regarding the access point and the characteristics of service provided by the access point through out of band communications. Preferably, the mobile device utilizes a separate IPv6 address for each application used by the mobile device so that communications are associated with the appropriate application utilizing this address.